

LEVELING
GRANTS PASS OR TO SAN FRANCISCO CA

RUN DATE: 30 OCT 84 TIME: 06:33

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HGZ L202
4.0 MM 1ST-ORDER/CLASS II

JHB/NGS

14 NOV 1930

30 JAN 1931

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE			LONGITUDE		
								DD	MM	SS	DDD	MM	SS
3	NZO811	C 8		0.320	291.64920	291.64920	0	42	26	29	123	19	41
4	NZO527	B 8		0.632	288.84811	288.84807	2	42	26	34	123	19	29
5	NZO525	A 8		1.275	285.49759	285.49765	1	42	26	21	123	19	29
6	NZO483	F 56		2.631	280.71154	280.71183	2	42	25	49	123	19	51
7	NZO485	G 56		3.150	287.28869	287.28912	2	42	25	30	123	19	53
8	NZO487	H 56 OSHD		4.563	278.38325	278.38375	2	42	25	20	123	20	50
9	NZO820	J 56 OSHD		5.580	281.84077	281.84126	2	42	25	21	123	21	36
10		TBM 1		6.710	282.64273	282.64322	2	42	25	21	123	22	25*
11	NZO489	K 56 OSHD		7.818	283.08541	283.08590	2	42	25	21	123	23	13
12	NZO491	914 B USGS		8.974	278.90375	278.90425	3	42	25	20	123	24	03
13	NZO492	L 56 OSHD		10.064	283.27131	283.27192	2	42	25	05	123	24	48
14		TBM 2		10.735	301.63965	301.64034	2	42	24	55	123	25	13*
15		TBM 3		11.451	316.79173	316.79251	2	42	24	44	123	25	40*
16		TBM 4		12.415	315.10072	315.10162	2	42	24	29	123	26	17*
17		TBM 5		13.089	309.76017	309.76115	2	42	24	18	123	26	42*
18		TBM 6		13.121	307.37837	307.37935	2	42	24	18	123	26	44*
19		TBM 7		13.671	293.06801	293.06905	2	42	24	09	123	27	04*
20	NZO494	M 56 OSHD		14.086	278.77890	278.77999	3	42	24	03	123	27	20
21		TBM 8		15.327	283.03175	283.03304	2	42	23	35	123	27	43*
22		TBM 9		16.434	281.81989	281.82136	2	42	23	10	123	28	04*
23	NZO495	936 B USGS		16.899	285.58364	285.58519	2	42	22	59	123	28	13
24	NZO544	N 56 OSHD		17.775	288.90577	288.90733	2	42	22	58	123	28	51
25	NZO545	P 56		19.142	298.53012	298.53182	2	42	22	39	123	29	44
26	NZO546	R 56 OSHD		20.253	304.89253	304.89443	2	42	22	13	123	30	14
27		TBM 10		21.668	315.96540	315.96745	2	42	21	54	123	31	05*
28	NZO547	1077 B USGS	)	21.850	328.51776	328.51986	2	42	21	48	123	31	11
27		TBM 10	*	21.668	315.96540	315.96745	2	42	21	54	123	31	05*
29	NZO548	S 56 OSHD		22.268	321.01414	321.01626	2	42	21	46	123	31	26
30		TBM 11		23.132	336.54608	336.54818	2	42	21	48	123	32	03*
31	NZO549	T 56 OSHD		23.686	333.58127	333.58336	2	42	21	49	123	32	26
32		TBM 12		25.196	347.24693	347.24935	2	42	21	11	123	33	09*
33	NZO550	U 56 OSHD		25.794	356.47196	356.47451	2	42	20	56	123	33	26
34	NZO551	V 56 OSHD		25.968	358.87679	358.87934	2	42	20	56	123	33	25
35	NZO552	W 56 OSHD		26.041	359.44528	359.44786	2	42	20	53	123	33	32
36		TBM 13		26.954	374.49562	374.49831	2	42	20	41	123	33	56*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED	NORMAL	RUNS	LATITUDE			LONGITUDE		
					HT METERS	ORTHO HT METERS		DD	MM	SS	DDD	MM	SS
37	NZO553	1226 B USGS	)	27.173	373.90069	373.90344	2	42	20	35	123	34	10
36		TBM 13	*	26.954	374.49562	374.49831	2	42	20	41	123	33	56*
38		TBM 14		27.514	393.78718	393.78994	2	42	20	34	123	34	11*
39		TBM 15		27.975	412.75135	412.75417	2	42	20	28	123	34	23*
40		TBM 16		28.450	431.78768	431.79057	2	42	20	21	123	34	35*
41		TBM 17		28.856	451.60377	451.60672	2	42	20	16	123	34	46*
42		TBM 18		29.257	471.80445	471.80746	2	42	20	11	123	34	56*
43		TBM 19		29.652	492.35453	492.35760	2	42	20	06	123	35	07*
44	NZO554	X 56 OSHD		29.935	505.84394	505.84706	2	42	20	02	123	35	14
45		TBM 20		30.563	488.72954	488.73286	2	42	19	46	123	35	27*
46		TBM 21		31.201	470.32289	470.32641	2	42	19	30	123	35	41*
47		TBM 22		32.242	453.83022	453.83405	2	42	19	04	123	36	03*
48		TBM 23		32.913	446.55269	446.55671	2	42	18	47	123	36	18*
49		TBM 24		33.006	445.20814	445.21219	2	42	18	45	123	36	20*
50	NZO555	1454 B USGS		33.170	443.37765	443.38175	2	42	18	41	123	36	23
51	NZO556	Y 56 OSHD		33.474	438.83120	438.83540	2	42	18	32	123	36	29
52		TBM 25		34.254	451.52452	451.52902	2	42	18	06	123	36	34*
53	NZO557	Z 56 OSHD		35.287	422.45655	422.46144	2	42	17	31	123	36	40
54		TBM 26		36.545	406.25405	406.25933	2	42	16	54	123	36	52*
55	NZO558	1323 B USGS		36.746	403.80838	403.81372	2	42	16	48	123	36	54
56	NZO559	A 57 OSHD		37.757	398.49102	398.49665	2	42	16	20	123	37	19
57		TBM 27		38.809	416.55200	416.55797	2	42	15	47	123	37	25*
58		TBM 28		39.786	433.79401	433.80031	2	42	15	17	123	37	30*
59		TBM 29		40.448	432.87594	432.88247	2	42	14	56	123	37	33*
60	NZO560	B 57 OSHD		40.784	420.58085	420.58749	2	42	14	46	123	37	35
61		TBM 30		41.915	404.86491	404.87184	3	42	14	18	123	37	56*
62		TBM 31		42.943	399.02090	399.02809	3	42	13	53	123	38	14*
63		TBM 32		43.447	388.15431	388.16162	2	42	13	41	123	38	24*
64		TBM 33		43.505	385.98232	385.98964	3	42	13	39	123	38	25*
65	NZO561	C 57 OSHD		43.794	377.00754	377.01493	2	42	13	32	123	38	30
66		TBM 34		44.965	377.60352	377.61127	2	42	12	54	123	38	36*
67		TBM 35		46.040	382.79932	382.80740	3	42	12	20	123	38	41*
68	NZO562	D 57 OSHD		46.377	382.75132	382.75951	2	42	12	09	123	38	43
69	NZO563	1263 USGS		46.783	384.91843	384.92674	2	42	11	57	123	38	48
70	NZO564	E 57 OSHD		47.398	385.87175	385.88025	2	42	11	38	123	38	43

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71		TBM 36		47.891	396.86558	396.87423	3	42 11 23	123 38 37*
72		TBM 37		47.990	399.53264	399.54132	2	42 11 20	123 38 36*
73	NZO565	F 57 OSHD		48.981	397.01350	397.02249	2	42 10 50	123 38 23
74		TBM 38		49.753	411.36598	411.37522	2	42 10 25	123 38 28*
75		TBM 39		50.352	406.49550	406.50494	2	42 10 06	123 38 32*
76	NZO566	G 57 OSHD		51.484	394.45522	394.46503	2	42 09 30	123 38 40
77		TBM 40		52.390	408.49313	408.50321	2	42 09 04	123 38 58*
78		TBM 41		52.530	409.72538	409.73550	2	42 09 00	123 39 01*
79		TBM 42		53.693	402.64157	402.65204	2	42 08 26	123 39 24*
80	NZO567	H 57 OSHD		53.854	398.98470	398.99522	2	42 08 21	123 39 27
81		TBM 43		55.569	402.05884	402.06981	3	42 07 37	123 40 03*
82	NZO568	J 57 OSHD		55.818	402.68113	402.69216	2	42 07 31	123 40 08
83	NZO569	K 57 OSHD		56.207	403.11298	403.12412	2	42 07 20	123 40 15
84		TBM 44		57.619	412.88960	412.90120	2	42 06 36	123 40 31*
85	NZO578	L 57 OSHD		59.430	422.70546	422.71766	2	42 05 40	123 40 52
86		TBM 45		60.787	432.28010	432.29270	2	42 05 03	123 41 20*
87		TBM 46		61.938	434.24097	434.25392	2	42 04 32	123 41 43*
88	NZO580	M 57 OSHD		62.076	429.30543	429.31842	2	42 04 28	123 41 46
89		TBM 47		63.310	432.09878	432.11216	2	42 03 53	123 42 16*
90		TBM 48	)	64.063	438.55092	438.56424	2	42 03 58	123 42 38*
91	NZO581	1465 6 USGS	)	65.331	446.56206	446.57528	2	42 04 07	123 43 16
89		TBM 47	*	63.310	432.09878	432.11216	2	42 03 53	123 42 16*
92	NZO582	N 57 OSHD		64.592	447.92686	447.94065	2	42 03 16	123 42 47
93		TBM 49		65.492	464.72127	464.73534	2	42 02 52	123 43 01*
94		TBM 50		66.254	482.70289	482.71721	2	42 02 31	123 43 13*
95		TBM 51		66.912	501.05529	501.06983	2	42 02 13	123 43 23*
96	NZO583	P 57 OSHD		67.245	494.24879	494.26344	2	42 02 04	123 43 28
97	NZO584	R 57 OSHD		67.546	487.23307	487.24786	2	42 01 53	123 43 37
98		TBM 52		68.502	493.91142	493.92656	3	42 01 25	123 43 34*
99		TBM 53		69.590	493.88760	493.90315	2	42 00 52	123 43 31*
100	NZO585	S 57 OSHD		70.039	502.13174	502.14746	2	42 00 39	123 43 30
101		TBM 54		70.837	516.67845	516.69456	2	42 00 09	123 43 19*
102		TBM 55		71.340	521.17036	521.18672	2	41 59 50	123 43 12*
103	MXO831	L 72		71.513	524.03882	524.05527	2	41 59 44	123 43 10
104		TBM 56		71.936	514.62513	514.64175	2	41 59 31	123 43 09*

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105		TBM 57							
106	MX0832	M 72		73.063	529.24626	529.26332	3	41 58 58	123 43 08*
107		TBM 58		73.405	534.79270	534.80990	2	41 58 48	123 43 07
108		TBM 59		74.081	550.18641	550.20370	2	41 58 41	123 43 19*
109		TBM 60		74.505	570.92205	570.93940	2	41 58 37	123 43 27*
				74.955	593.13763	593.15505	2	41 58 32	123 43 35*
110		TBM 61							
111		TBM 62		75.333	615.26166	615.27914	2	41 58 28	123 43 42*
112		TBM 63		75.818	638.93440	638.95196	2	41 58 24	123 43 50*
113	MX0834	N 72		75.849	639.88029	639.89785	2	41 58 23	123 43 51*
114		TBM 64		75.975	647.23343	647.25101	2	41 58 22	123 43 53
				76.377	667.31914	667.33673	2	41 58 21	123 44 06*
115		TBM 65							
116		TBM 66		76.825	687.97324	687.99084	2	41 58 21	123 44 20*
117		TBM 67		77.249	708.93258	708.95019	2	41 58 20	123 44 33*
118	MX0905	P 72		77.599	729.53092	729.54854	2	41 58 19	123 44 44*
119		TBM 68		77.915	742.59563	742.61326	2	41 58 19	123 44 54
				78.259	724.33663	724.35434	2	41 58 15	123 44 53*
120		TBM 69							
121		TBM 70		78.639	703.90951	703.92730	2	41 58 11	123 44 52*
122		TBM 71		79.050	684.56410	684.58197	2	41 58 06	123 44 51*
123		TBM 72		79.435	664.03376	664.05171	2	41 58 01	123 44 50*
124		TBM 73		79.799	646.03509	646.05311	2	41 57 57	123 44 49*
				80.169	626.61162	626.62971	3	41 57 53	123 44 48*
125		TBM 74							
126		TBM 75		80.543	605.68277	605.70093	2	41 57 48	123 44 47*
127	MX0904	R 72		80.883	585.96378	585.98200	2	41 57 44	123 44 46*
128		TBM 76		81.168	573.52738	573.54565	2	41 57 41	123 44 45
129		TBM 77		81.510	554.87884	554.89722	2	41 57 33	123 44 48*
				81.550	553.16573	553.18412	2	41 57 32	123 44 48*
130		TBM 78							
131		TBM 79		81.940	532.58686	532.60537	2	41 57 23	123 44 51*
132		TBM 80		82.287	512.11129	512.12991	2	41 57 15	123 44 54*
133		TBM 81		82.807	493.55668	493.57545	2	41 57 03	123 44 58*
134		TBM 82		83.551	475.73024	475.74922	2	41 56 46	123 45 04*
				84.374	461.98167	462.00088	2	41 56 27	123 45 11*
135	MX0903	S 72							
136		TBM 83		84.925	451.77392	451.79328	2	41 56 14	123 45 15
137		TBM 84		85.688	438.09355	438.11315	2	41 55 53	123 45 24*
138		TBM 85		85.737	436.95348	436.97310	2	41 55 51	123 45 25*
139		TBM 86		86.431	423.88928	423.90911	2	41 55 32	123 45 33*
				87.351	419.36103	419.38113	2	41 55 07	123 45 43*

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140		TBM 87		87.891	408.39014	408.41040	2	41 54 52	123 45 50*
141		TBM 88		88.313	401.84889	401.86927	2	41 54 40	123 45 55*
142	MX0835	T 72		89.108	383.08572	383.10632	2	41 54 18	123 46 04
143		TBM 89		89.997	367.97442	367.99513	2	41 54 06	123 46 29*
144		TBM 90		90.839	358.84301	358.86382	2	41 53 55	123 46 54*
145		TBM 91		90.903	359.49881	359.51963	2	41 53 54	123 46 55*
146		TBM 92		91.646	351.67043	351.69134	2	41 53 44	123 47 17*
147		TBM 93		92.299	358.35164	358.37263	3	41 53 36	123 47 35*
148		TBM 94		92.845	369.44457	369.46563	2	41 53 29	123 47 51*
149	MX0836	U 72		93.194	353.11134	353.13244	2	41 53 24	123 48 01
150		TBM 95		93.592	333.26316	333.28431	2	41 53 18	123 48 15*
151		TBM 96		94.051	314.19554	314.21674	2	41 53 12	123 48 32*
152	MX0837	V 72		94.835	303.24648	303.26777	2	41 53 01	123 49 00
153	MX0838	W 72		96.148	287.71063	287.73201	2	41 52 49	123 49 32
154		TBM 97		97.266	280.76068	280.78211	2	41 52 42	123 49 54*
155		TBM 98		98.310	267.04911	267.07058	2	41 52 36	123 50 14*
156	MX0840	X 72		99.388	249.53170	249.55321	3	41 52 30	123 50 35
157		TBM 99		100.358	239.04887	239.07046	2	41 52 17	123 51 04*
158		TBM 100		101.046	231.61417	231.63582	2	41 52 08	123 51 24*
159		TBM 101		101.916	224.18988	224.21160	2	41 51 56	123 51 50*
160		TBM 102		102.558	218.54825	218.57002	2	41 51 47	123 52 10*
161	MX0841	Y 72		102.875	210.71116	210.73295	2	41 51 43	123 52 19
162		TBM 103		103.999	193.65286	193.67473	2	41 51 28	123 52 56*
163	MX0843	Z 72		104.252	195.43828	195.46017	2	41 51 25	123 53 04
164		TBM 104		105.215	184.79975	184.82170	2	41 51 13	123 53 42*
165		TBM 105		105.846	180.85960	180.88159	2	41 51 05	123 54 07*
166		TBM 106		105.943	179.90579	179.92779	2	41 51 04	123 54 11*
167		TBM 107		106.713	163.58081	163.60285	2	41 50 55	123 54 41*
168	MX0844	A 73		107.499	158.96150	158.98358	2	41 50 45	123 55 12
169	MX0845	B 73		107.692	154.76081	154.78290	2	41 50 43	123 55 22
170		TBM 108		108.442	170.03040	170.05249	2	41 50 43	123 55 45*
171		TBM 109		109.002	151.53332	151.55541	3	41 50 44	123 56 03*
172		TBM 110		109.799	137.37608	137.39817	3	41 50 44	123 56 27*
173		TBM 111		110.513	121.96631	121.98840	2	41 50 45	123 56 50*
174		TBM 112		111.229	123.29571	123.31780	2	41 50 45	123 57 12*

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175	MX0846	378 USGS		112.301	115.15677	115.17886	2	41 50 46	123 57 45
176	MX0847	390 USGS)	112.774	118.58811	118.61020	2	41 50 45	123 57 45
175	MX0846	378 USGS	*	112.301	115.15677	115.17886	2	41 50 46	123 57 45
177		TBM 113		113.511	109.46820	109.49031	2	41 50 39	123 58 41*
178	MX0848	C 73		114.788	97.75790	97.78003	2	41 50 32	123 59 40
179	LVO041	D 73		116.255	97.79409	97.81622	2	41 50 33	124 00 40
180		TBM 114		117.473	93.84210	93.86425	2	41 50 23	124 01 19*
181	LVO042	E 73		117.767	88.78364	88.80580	2	41 50 21	124 01 29
182		TBM 115		119.055	85.07831	85.10053	2	41 49 54	124 01 48*
183		TBM 116		119.532	93.50230	93.52454	2	41 49 44	124 01 56*
184		TBM 117		119.998	94.77373	94.79599	2	41 49 34	124 02 03*
185		TBM 118		120.555	83.04013	83.06242	2	41 49 23	124 02 11*
186		TBM 119		121.291	70.68034	70.70266	3	41 49 07	124 02 22*
187	LVO043	F 73		122.212	75.85104	75.87340	2	41 48 48	124 02 36
188		TBM 120		122.832	77.20324	77.22562	2	41 48 37	124 02 51*
189		TBM 121		123.606	62.82550	62.84790	2	41 48 24	124 03 10*
190		TBM 122		124.280	53.13376	53.15618	2	41 48 12	124 03 26*
191		TBM 123		124.596	50.75623	50.77866	2	41 48 06	124 03 34*
192		TBM 124		125.010	71.56922	71.59166	2	41 47 59	124 03 44*
193		TBM 125		125.528	64.95542	64.97788	2	41 47 50	124 03 56*
194	LVO044	G 73		126.384	49.49635	49.51883	2	41 47 35	124 04 17
195		TBM 126		127.668	36.71656	36.73901	2	41 48 03	124 04 38*
196	LVO045	H 73		128.691	39.10984	39.13227	2	41 48 25	124 04 54
197		TBM 127		129.603	38.54598	38.56841	2	41 48 27	124 05 28*
198		TBM 128		131.015	40.73105	40.75348	2	41 48 30	124 06 21*
199		TBM 129		131.097	43.00718	43.02961	2	41 48 31	124 06 24*
200		TBM 130		131.626	63.62615	63.64858	2	41 48 32	124 06 44*
201		TBM 131		132.023	85.76002	85.78245	2	41 48 33	124 06 58*
202		TBM 132		132.437	107.57403	107.59646	2	41 48 34	124 07 14*
203	LVO046	J 73		132.976	121.33290	121.35533	2	41 48 35	124 07 34
204		TBM 133		133.325	103.75718	103.77963	2	41 48 26	124 07 40*
205		TBM 134		133.715	82.73340	82.75587	2	41 48 17	124 07 48*
206		TBM 135		134.076	62.40250	62.42499	3	41 48 08	124 07 54*
207		TBM 136		134.455	41.36488	41.38738	3	41 47 59	124 08 01*
208		TBM 137		135.270	28.05350	28.07602	2	41 47 38	124 08 16*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
209		TBM 138		135.470	26.59210	26.61462	2	41 47 34	124 08 20*
210		TBM 139		136.880	22.61778	22.64032	2	41 46 59	124 08 46*
211	LVO047	K 73		137.640	19.95724	19.97979	2	41 46 40	124 09 00
212		TBM 140		138.335	19.26945	19.29201	2	41 46 25	124 09 20*
213		TBM 141		139.040	12.45496	12.47753	2	41 46 11	124 09 40*
214		TBM 142		139.876	5.63425	5.65682	2	41 45 53	124 10 04*
215		TBM 143		141.200	5.64883	5.67140	2	41 45 25	124 10 42*
216	LVO490	L 73		141.983	2.40021	2.42278	2	41 45 09	124 11 04
217	LVO003	N 73	)	143.096	4.50801	4.53058	4	41 45 05	124 11 45
218	LVO486	30 USGS	)	143.412	8.83008	8.85265	2	41 45 12	124 11 52
219	LVO002	M 73	)	143.795	13.12306	13.14563	2	41 45 24	124 12 12
216	LVO490	L 73	*	141.983	2.40021	2.42278	2	41 45 09	124 11 04
220		TBM 144		143.088	3.53493	3.55750	4	41 44 49	124 10 33*
221		TBM 145		143.981	3.53136	3.55393	2	41 44 32	124 10 08*
222		TBM 146		145.287	5.05118	5.07375	2	41 44 08	124 09 32*
223	LVO096	P 73		145.604	8.93435	8.95692	2	41 44 02	124 09 23
224		TBM 147		146.901	6.11640	6.13898	2	41 43 25	124 09 02*
225		TBM 148		147.952	19.82267	19.84526	2	41 42 55	124 08 45*
226		TBM 149		148.398	40.89036	40.91296	2	41 42 42	124 08 37*
227		TBM 150		148.673	55.71234	55.73495	2	41 42 34	124 08 33*
228		TBM 151		148.725	57.64022	57.66283	2	41 42 33	124 08 32*
229		TBM 152		149.253	54.95614	54.97877	2	41 42 18	124 08 23*
230	LVO089	R 73		149.762	30.49129	30.51394	2	41 42 03	124 08 15
231		TBM 153		150.194	50.77276	50.79542	2	41 41 51	124 08 14*
232		TBM 154		150.559	73.27969	73.30237	2	41 41 40	124 08 12*
233		TBM 155		150.910	95.40573	95.42843	2	41 41 31	124 08 11*
234		TBM 156		151.263	117.73126	117.75399	2	41 41 21	124 08 10*
235		TBM 157		151.631	139.27537	139.29813	2	41 41 10	124 08 09*
236		TBM 158		151.995	161.74100	161.76380	2	41 41 00	124 08 08*
237		TBM 159		152.025	163.83022	163.85302	2	41 40 59	124 08 08*
238		TBM 160		152.407	184.50594	184.52879	2	41 40 48	124 08 07*
239		TBM 161		152.754	205.89367	205.91657	2	41 40 38	124 08 06*
240		TBM 162		153.102	227.05438	227.07733	3	41 40 28	124 08 04*
241	LVO083	S 73		153.260	237.61229	237.63527	2	41 40 24	124 08 04
242		TBM 163		153.605	256.23632	256.25930	2	41 40 23	124 07 57*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
243		TBM 164		154.299	270.91873	270.94172	2	41 40 22	124 07 42*
244		TBM 165		154.885	255.42399	255.44699	2	41 40 21	124 07 30*
245		TBM 166		155.477	251.39600	251.41901	2	41 40 20	124 07 17*
246		TBM 167		155.532	248.44783	248.47084	2	41 40 20	124 07 16*
247		TBM 168		155.971	243.07000	243.09301	2	41 40 20	124 07 06*
248	LVO082	T 73		156.322	253.72009	253.74310	2	41 40 19	124 06 59
249		TBM 169		157.494	250.04587	250.06908	2	41 39 48	124 06 59*
250		TBM 170		158.231	253.40763	253.43096	2	41 39 29	124 06 59*
251		TBM 171		158.595	262.43871	262.46210	2	41 39 19	124 06 59*
252		TBM 172		159.402	253.79365	253.81718	2	41 38 58	124 06 59*
253	LVO077	U 73		159.907	253.27803	253.30165	2	41 38 45	124 06 59
254		TBM 173		160.886	235.89494	235.91872	2	41 38 19	124 06 52*
255		TBM 174		161.237	214.30085	214.32468	2	41 38 09	124 06 49*
256		TBM 175		161.688	196.18412	196.20801	2	41 37 57	124 06 46*
257		TBM 176		162.182	175.23149	175.25544	2	41 37 44	124 06 43*
258	LVO072	V 73		162.551	165.50714	165.53113	2	41 37 34	124 06 40
259		TBM 177		163.069	136.43012	136.45417	2	41 37 17	124 06 31*
260		TBM 178		163.484	110.31877	110.34286	2	41 37 04	124 06 23*
261		TBM 179		163.513	108.49045	108.51454	2	41 37 03	124 06 23*
262	LVO071	286.71 CSHD		163.873	86.77400	86.79812	2	41 36 51	124 06 16
263		TBM 180		164.205	66.26986	66.29399	2	41 36 44	124 06 09*
264		TBM 181		164.643	39.16493	39.18907	2	41 36 36	124 06 00*
265		TBM 182		165.002	16.68035	16.70449	2	41 36 29	124 05 52*
266	LVO067	W 73		165.231	5.29245	5.31659	2	41 36 24	124 05 47
267		TBM 183		166.588	8.13292	8.15707	2	41 35 52	124 05 24*
268		TBM 184		168.060	11.28603	11.31019	2	41 35 17	124 04 59*
269		TBM 185		168.104	11.69234	11.71650	2	41 35 16	124 04 58*
270	LVO064	X 73		169.058	17.41918	17.44335	2	41 34 54	124 04 42
271		TBM 186		170.326	16.52387	16.54805	2	41 34 20	124 04 13*
272		TBM 187		170.812	7.34462	7.36880	2	41 34 07	124 04 02*
273		TBM 188		171.827	5.07742	5.10160	2	41 33 40	124 03 38*
274	LVO061	Y 73		173.193	8.23101	8.25520	2	41 33 03	124 03 07
275		TBM 189		174.791	5.22329	5.24749	2	41 32 23	124 02 47*
276		TBM 190		174.840	5.43283	5.45703	2	41 32 21	124 02 47*
277		TBM 191		176.360	7.29184	7.31605	2	41 31 43	124 02 28*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
278	LVO055	Z 73		176.760	13.05822	13.08243	2	41 31 33	124 02 23
279		TBM 192		178.099	21.95746	21.98168	2	41 31 12	124 03 10*
280		TBM 193		178.503	42.01682	42.04104	2	41 31 06	124 03 24*
281		TBM 194		178.864	63.06547	63.08970	2	41 31 00	124 03 37*
282		TBM 195		179.288	86.92464	86.94888	2	41 30 54	124 03 52*
283		TBM 196		179.720	111.64147	111.66573	2	41 30 47	124 04 07*
284		TBM 197		180.077	132.95360	132.97788	2	41 30 42	124 04 19*
285	LVO051	A 74		180.320	146.75466	146.77895	2	41 30 38	124 04 28
286		TBM 198		181.216	150.27508	150.29947	2	41 30 12	124 04 05*
287		TBM 199		181.601	157.41664	157.44107	2	41 30 00	124 03 55*
288		TBM 200		182.004	178.15411	178.17859	2	41 29 49	124 03 45*
289		TBM 201		182.472	168.79523	168.81977	2	41 29 35	124 03 33*
290		TBM 202		183.464	148.52292	148.54758	2	41 29 06	124 03 08*
291		TBM 203		184.005	164.25390	164.27862	2	41 28 50	124 02 54*
292	LVO205	B 74		184.133	171.00383	171.02857	2	41 28 46	124 02 51
293		TBM 204		184.526	192.13621	192.16100	2	41 28 36	124 02 49*
294		TBM 205		185.082	183.40788	183.43274	2	41 28 21	124 02 45*
295		TBM 206		185.921	175.97725	176.00221	2	41 27 59	124 02 40*
296		TBM 207		186.616	169.18720	169.21224	2	41 27 40	124 02 36*
297		TBM 208		186.974	190.32233	190.34741	2	41 27 31	124 02 34*
298		TBM 209		187.181	202.25053	202.27564	4	41 27 25	124 02 32*
299		TBM 210		187.223	204.24817	204.27329	2	41 27 24	124 02 32*
300		TBM 211		187.572	225.08137	225.10654	2	41 27 15	124 02 30*
301	LVO204	C 74		187.720	233.79896	233.82415	2	41 27 11	124 02 29
302		TBM 212		188.064	254.13256	254.15781	2	41 27 01	124 02 26*
303		TBM 213		188.463	260.33703	260.36235	2	41 26 50	124 02 23*
304		TBM 214		188.805	239.96618	239.99156	2	41 26 40	124 02 21*
305		TBM 215		189.183	218.39778	218.42322	2	41 26 30	124 02 18*
306		TBM 216		189.533	197.14291	197.16840	2	41 26 20	124 02 15*
307		TBM 217		190.147	177.81222	177.83779	2	41 26 03	124 02 11*
308		TBM 218		190.697	165.62630	165.65194	2	41 25 47	124 02 07*
309		TBM 219		190.788	163.74193	163.76758	2	41 25 44	124 02 06*
310	LVO192	D 74		191.868	143.89481	143.92058	2	41 25 14	124 01 58
311		TBM 220		192.924	126.39799	126.42387	2	41 24 42	124 01 44*
312		TBM 221		193.948	110.36180	110.38777	3	41 24 11	124 01 30*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
313		TBM 222		194.817	92.36443	92.39047	2	41 23 45	124 01 18*
314	LVO194	E 74		195.070	90.55368	90.57974	2	41 23 37	124 01 15
315		TBM 223		195.953	79.33018	79.35630	2	41 23 10	124 01 13*
316		TBM 224		196.652	70.02625	70.05241	2	41 22 49	124 01 12*
317		TBM 225		196.754	67.64205	67.66822	2	41 22 46	124 01 12*
318		TBM 226		198.095	53.55626	53.58249	2	41 22 06	124 01 09*
319	LVO197	F 74		198.579	46.57532	46.60157	2	41 21 51	124 01 08
320		TBM 227		199.923	32.63418	32.66047	2	41 21 12	124 01 20*
321		TBM 228		200.965	23.60567	23.63198	2	41 20 42	124 01 29*
322		TBM 229		202.306	19.04002	19.06635	2	41 20 03	124 01 41*
323	LVO200	G 74		202.650	19.31189	19.33822	2	41 19 53	124 01 44
324		TBM 230		203.671	12.96057	12.98691	2	41 19 25	124 02 03*
325		TBM 231		205.185	16.11103	16.13739	2	41 18 44	124 02 31*
326	LVO202	H 74		205.642	11.99554	12.02190	2	41 18 31	124 02 39
327		TBM 232		207.065	13.31311	13.33948	2	41 17 54	124 03 04*
328	LVO185	J 74		208.487	10.20414	10.23052	2	41 17 17	124 03 28
329		TBM 233		210.021	5.51327	5.53965	2	41 17 04	124 04 23*
330		TBM 234		210.395	12.21242	12.23880	2	41 17 01	124 04 36*
331		TBM 235		210.771	32.68004	32.70642	2	41 16 57	124 04 49*
332		TBM 236		211.261	53.06043	53.08681	2	41 16 53	124 05 07*
333		TBM 237		211.751	73.41614	73.44253	2	41 16 49	124 05 24*
334	LVO180	K 74		211.857	78.18626	78.21265	2	41 16 48	124 05 28
335		TBM 238		212.205	56.47588	56.50228	2	41 16 39	124 05 26*
336		TBM 239		212.567	37.68061	37.70702	2	41 16 31	124 05 25*
337		TBM 240		213.252	41.86374	41.89017	2	41 16 14	124 05 22*
338		TBM 241		213.593	37.48498	37.51142	2	41 16 05	124 05 20*
339		TBM 242		214.211	24.63261	24.65906	2	41 15 50	124 05 17*
340		TBM 243		214.827	22.65251	22.67897	2	41 15 35	124 05 14*
341		TBM 244		215.183	38.58448	38.61095	2	41 15 26	124 05 13*
342	LVO177	L 74		215.569	48.66470	48.69118	2	41 15 17	124 05 11
343		TBM 245		216.118	74.30790	74.33440	2	41 15 02	124 05 08*
344		TBM 246		216.815	57.32106	57.34759	2	41 14 43	124 05 05*
345		TBM 247		217.204	36.37826	36.40480	2	41 14 33	124 05 03*
346		TBM 248		217.563	15.68251	15.70906	2	41 14 23	124 05 02*
347	LVO499	M 74		218.510	6.07621	6.10277	3	41 13 57	124 04 57

LEVELING
GRANTS PASS OR TO SAN FRANCISCO CA

RUN DATE: 30 OCT 84 TIME: 06:33

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4.0 MM 1ST-ORDER/CLASS II

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
348		TBM 249		219.937	9.88243	9.90900	2	41 13 29	124 05 34*
349		TBM 250		220.894	25.66413	25.69071	3	41 13 10	124 05 59*
350		TBM 251		221.257	46.05545	46.08204	2	41 13 03	124 06 09*
351	LVO498	N 74		222.114	65.19454	65.22115	2	41 12 46	124 06 31
352		TBM 252		222.514	45.69240	45.71903	2	41 12 34	124 06 30*
353		TBM 253		222.909	27.74029	27.76693	2	41 12 22	124 06 29*
354		TBM 254		223.491	33.90327	33.92992	2	41 12 04	124 06 28*
355		TBM 255		223.853	21.37605	21.40271	2	41 11 53	124 06 28*
356		TBM 256		224.417	9.18395	9.21062	3	41 11 36	124 06 27*
357		TBM 257		224.829	29.40022	29.42690	3	41 11 24	124 06 26*
358	LVO497	P 74		225.243	43.53715	43.56384	2	41 11 11	124 06 25
359		TBM 258		225.594	32.83118	32.85788	2	41 11 02	124 06 29*
360		TBM 259		226.106	22.05254	22.07925	2	41 10 50	124 06 34*
361		TBM 260		226.605	9.09123	9.11794	2	41 10 38	124 06 40*
362		TBM 261		226.661	11.63608	11.66279	2	41 10 36	124 06 41*
363		TBM 262		227.811	5.10389	5.13061	3	41 10 08	124 06 53*
364	LVO496	R 74		229.156	14.00569	14.03242	2	41 09 35	124 07 08
365		TBM 263		229.784	17.43135	17.45809	2	41 09 21	124 07 17*
366		TBM 264		230.301	23.42819	23.45494	2	41 09 09	124 07 25*
367		TBM 265		230.713	43.82329	43.85005	2	41 09 00	124 07 31*
368		TBM 266		231.303	67.00747	67.03425	2	41 08 46	124 07 40*
369		TBM 267		231.335	68.88620	68.91298	2	41 08 46	124 07 41*
370		TBM 268		231.692	90.74649	90.77329	2	41 08 38	124 07 46*
371		TBM 269		232.065	112.49043	112.51725	2	41 08 29	124 07 52*
372	LVO163	S 74		232.564	106.08615	106.11300	2	41 08 18	124 07 59
373		TBM 270		232.834	94.01058	94.03744	2	41 08 13	124 08 06*
374		TBM 271		232.864	92.21837	92.24523	2	41 08 13	124 08 06*
375		TBM 272		233.595	84.00025	84.02714	2	41 08 01	124 08 25*
376		TBM 273		234.399	80.04789	80.07481	2	41 07 47	124 08 45*
377		TBM 274		234.863	66.70880	66.73573	2	41 07 40	124 08 56*
378	LVO161	T 74		235.729	76.85430	76.88126	2	41 07 25	124 09 18
379		TBM 275		236.203	74.64911	74.67610	2	41 07 11	124 09 16*
380		TBM 276		236.795	82.16552	82.19255	2	41 06 53	124 09 14*
381		TBM 277		237.505	74.35601	74.38308	2	41 06 32	124 09 12*
382		TBM 278		237.892	53.75135	53.77844	2	41 06 21	124 09 11*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
383		TBM 279		237.934	55.20078	55.22787	2	41 06 19	124 09 11*
384		TBM 280		238.311	77.25912	77.28623	2	41 06 08	124 09 09*
385		TBM 281		238.966	78.41737	78.44452	5	41 05 49	124 09 07*
386	LVO495	U 74		239.621	73.41051	73.43770	2	41 05 29	124 09 05
387		TBM 282		240.100	72.65481	72.68203	2	41 05 15	124 08 58*
388		TBM 283		241.205	73.81189	73.83917	2	41 04 42	124 08 43*
389		TBM 284		242.408	65.80895	65.83629	3	41 04 06	124 08 27*
390		TBM 285		242.889	51.36942	51.39678	2	41 03 51	124 08 20*
391	LVO494	V 74		243.363	51.29060	51.31798	2	41 03 37	124 08 14
392		TBM 286		243.795	55.31486	55.34225	2	41 03 28	124 08 04*
393		TBM 287		243.852	58.07087	58.09826	2	41 03 27	124 08 03*
394		TBM 288		244.234	39.11020	39.13760	2	41 03 19	124 07 54*
395		TBM 289		244.777	49.99261	50.02002	2	41 03 07	124 07 42*
396		TBM 290		245.464	44.33275	44.36018	2	41 02 53	124 07 26*
397		TBM 291		245.979	31.84936	31.87680	2	41 02 42	124 07 14*
398	LVO151	W 74		246.391	22.76237	22.78982	2	41 02 33	124 07 05
399		TBM 292		247.081	32.43818	32.46564	2	41 02 15	124 06 55*
400		TBM 293		247.540	47.69884	47.72631	4	41 02 03	124 06 48*
401		TBM 294		248.106	41.19780	41.22529	2	41 01 48	124 06 39*
402		TBM 295		248.621	20.79391	20.82141	2	41 01 35	124 06 32*
403		TBM 296		248.659	20.49178	20.51928	2	41 01 34	124 06 31*
404	LVO146	X 74		249.338	2.78065	2.80816	2	41 01 16	124 06 21
405		TBM 297		250.533	5.88717	5.91468	2	41 00 39	124 06 29*
406		TBM 298		251.423	11.89873	11.92625	2	41 00 11	124 06 36*
407	LVO327	Y 74		252.335	5.79538	5.82291	2	40 59 43	124 06 42
408		TBM 299		252.830	25.42177	25.44931	2	40 59 28	124 06 36*
409		TBM 300		253.359	46.51390	46.54145	2	40 59 12	124 06 30*
410		TBM 301		253.398	48.70478	48.73233	2	40 59 11	124 06 29*
411		TBM 302		254.374	61.26675	61.29434	2	40 58 42	124 06 18*
412		TBM 303		255.355	57.22017	57.24780	3	40 58 13	124 06 06*
413	LVO481	Z 74		256.155	41.72415	41.75181	2	40 57 49	124 05 57
414		TBM 304		257.517	32.82731	32.85501	2	40 57 05	124 05 58*
415		TBM 305		258.734	43.87938	43.90712	2	40 56 25	124 06 00*
416	LVO317	A 75		259.205	45.89441	45.92217	2	40 56 10	124 06 00
417		TBM 306		260.015	45.70694	45.73473	2	40 55 46	124 05 50*

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SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
418		TBM 307		260.263	56.67466	56.70246	2	40 55 39	124 05 46*
419		TBM 308		260.707	35.10430	35.13212	2	40 55 25	124 05 41*
420		TBM 309		261.100	12.93946	12.96729	2	40 55 14	124 05 36*
421	LVO314	B 75 ✓		261.624	10.64974	10.67757	2	40 54 58	124 05 29
422		TBM 310		262.588	9.26587	9.29371	2	40 54 29	124 05 14*
423		TBM 311		263.579	11.42260	11.45045	2	40 54 00	124 04 59*
424	LVO479	C 75 ✓		264.340	9.92341	9.95127	2	40 53 37	124 04 48
425	LVO478	D 75		264.827	16.38691	16.41477	2	40 53 22	124 04 43
426		TBM 312		266.073	15.54523	15.57311	2	40 52 43	124 04 54*
427		TBM 313		266.847	26.22761	26.25550	2	40 52 18	124 05 00*
428	LVO303	E 75	)	267.385	24.56432	24.59220	2	40 52 29	124 05 09
427		TBM 313	*	266.847	26.22761	26.25550	2	40 52 18	124 05 00*
429	LVO300	F 75		267.273	9.70425	9.73215	4	40 52 05	124 05 04
430		TBM 314		268.198	1.26865	1.29655	2	40 51 38	124 05 00*
431		TBM 315		269.655	2.44398	2.47188	2	40 50 55	124 04 53*
432	LVO297	G 75		270.253	2.32320	2.35110	3	40 50 37	124 04 50
433		TBM 316		271.639	2.51178	2.53968	2	40 50 04	124 05 21*
434-		TBM 317		272.924	0.91298	0.94088	2	40 49 34	124 05 51*
435		TBM 318		273.093	1.47472	1.50262	2	40 49 30	124 05 55*
436		TBM 319		274.373	1.12630	1.15420	3	40 49 00	124 06 24*
437	LVO290	H 75		275.665	1.44535	1.47325	2	40 48 30	124 06 53
438		TBM 320		277.159	1.08279	1.11069	2	40 48 22	124 07 56*
439	LVO286	J 75		277.874	3.62606	3.65396	2	40 48 18	124 08 26
440	LVO285	1 C OF E		278.378	5.35859	5.38649	2	40 48 17	124 08 48
441	LVO283	2 C OF E		278.930	10.75501	10.78291	2	40 48 17	124 09 12
442		TBM 321		279.598	11.90472	11.93262	2	40 48 09	124 09 37*
443	LVO282	44 USGS	)	279.607	12.83352	12.86142	2	40 48 12	124 09 37
442		TBM 321	*	279.598	11.90472	11.93262	2	40 48 09	124 09 37*
444	LVO281	2		279.827	13.12333	13.15123	3	40 48 06	124 09 46
445	LVO280	31 USGS		280.049	8.83436	8.86226	3	40 48 13	124 09 51
446	LVO279	1		280.296	4.43413	4.46203	2	40 48 10	124 09 57
447	LVO278	68 C OF E		280.977	1.75076	1.77866	2	40 48 06	124 10 25
448	LVO277	32 C OF E		282.145	3.58245	3.61035	2	40 47 29	124 10 36
449	LVO275	K 75		283.620	4.50679	4.53469	2	40 46 48	124 11 07

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-- ROD STANDARDIZATION --

EQUIP CODE	SERIAL NO	MANUFACTURER	MODEL	GRAD CODE	ROD UNITS	STD TEMP (C)	COEF EXPN (/C)	ROD EXCESS	INDEX ERROR
							X.0001	X.001	
312	228	USC&GS	INVAR		CM	28.7	0.0140A	0.0267C	0.1000C
312	229	USC&GS	INVAR		CM	28.9	0.0140A	0.0067C	-0.1000C
MEANS FOR ROD PAIR NUMBER 1						28.8	0.0140	0.0167	
312	247	USC&GS	INVAR		CM	28.0	0.0250A	-0.0071C	0.0000C
312	252	USC&GS	INVAR		CM	31.0	0.0250A	-0.0214C	0.0000C
MEANS FOR ROD PAIR NUMBER 2						29.5	0.0250	-0.0142	

PARAMETER FLAGS: A - ASSUMED, C - COMPUTED, R - FROM ARCHIVAL RECORDS
 U - USED PREVIOUSLY COMPUTED VALUE, ? - REDUC4 DEFAULT
 I - INTERPOLATED (25*), * - TAKEN FROM 16* RECORD

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-- INSTRUMENT INFORMATION AND COLLIMATION DATA --

INST	EQ CODE	SERIAL NO	MODEL	STADIA CONST	STADIA DATE	MICRO METER	MAG CONST	MAG POWER	MAG CAL DATE	ROD PAIR	40*
1	211	G10									
	14	NOV 30	1315	0.0030 *	336	19300908					
	17	NOV 30	848	0.0030 *	336	19300908				1	1
	18	NOV 30	848	0.0030 *	336	19300908				1	2
	19	NOV 30	830	0.0030 *	336	19300908				1	3
	20	NOV 30	830	0.0030 *	336	19300908				1	4
	22	NOV 30	837	0.0060 *	336	19300908				2	5
	24	NOV 30	837	0.0060 *	336	19300908				2	6
	25	NOV 30	850	0.0050 *	336	19300908				2	7
	02	DEC 30	850	0.0050 *	336	19300908				2	8
	06	DEC 30	1320	0.0030 *	336	19300908				2	9
	08	DEC 30	1320	0.0030 *	336	19300908				2	11
	10	DEC 30	1320	0.0030 *	336	19300908				2	12
	13	DEC 30	815	0.0030 *	336	19300908				2	13
	16	DEC 30	815	0.0030 *	336	19300908				2	14
	17	DEC 30	0805	0.0000 *	336	19300908				2	15
	18	DEC 30	1130	0.0000 *	336	19300908				2	16
	19	DEC 30	0800	0.0000 *	336	19300908				2	17
	20	DEC 30	0800	0.0000 *	336	19300908				2	18
	29	DEC 30	830	0.0080 *	336	19300908				2	19
	30	DEC 30	840	0.0030 *	336	19300908				2	20
	02	JAN 31	850	0.0060 *	336	19300908				2	21
	03	JAN 31	850	0.0060 *	336	19300908				2	22
	06	JAN 31	850	0.0060 *	336	19300908				2	23
	07	JAN 31	850	0.0060 *	336	19300908				2	24
	08	JAN 31	908	0.0070 *	336	19300908				2	25
	09	JAN 31	912	0.0080 *	336	19300908				2	26
	10	JAN 31	912	0.0080 *	336	19300908				2	27
	13	JAN 31	920	0.0080 *	336	19300908				2	28
	14	JAN 31	920	0.0080 *	336	19300908				2	29
	15	JAN 31	920	0.0080 *	336	19300908				2	30
	16	JAN 31	1314	0.0030 *	336	19300908				2	31
	17	JAN 31	1314	0.0030 *	336	19300908				2	32
	19	JAN 31	1314	0.0030 *	336	19300908				2	33
	20	JAN 31	1314	0.0030 *	336	19300908				2	34
	21	JAN 31	1314	0.0030 *	336	19300908				2	35
										2	36

NOT USED

* - COLLIMATION CORRECTION FACTOR (ROD UNIT PER ROD UNIT OF STADIA INTERVAL)
 \$ - COLLIMATION ERROR (MM/M OR RADIANS X 1000)

JHB/NGS

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30 JAN 1931

-- INSTRUMENT INFORMATION AND COLLIMATION DATA --

INST	EQ CODE	SERIAL NO	MODEL	STADIA CONST	STADIA DATE	MICRO METER	MAG CONST	MAG POWER	MAG CAL DATE	ROD PAIR	40*
1	211	G10									
	22	JAN 31	1124	0.0000 *	336	19300908				2	37
	23	JAN 31	1124	0.0000 *	336	19300908				2	38
	24	JAN 31	1124	0.0000 *	336	19300908				2	39
	26	JAN 31	830	0.0030 *	336	19300908				2	40
	27	JAN 31	830	0.0030 *	336	19300908				2	41
	28	JAN 31	830	0.0030 *	336	19300908				2	42
	29	JAN 31	953	0.0050 *	336	19300908				2	43
	30	JAN 31	953	0.0050 *	336	19300908				2	44
	06	DEC 30	1320	0.0030 *	336	19300908				2	55
	09	DEC 30	840	0.0030 *	336	19300908				2	57
2	211	G18									
	03	DEC 30	1314	-0.0040 *	368	19300823				2	10
	14	NOV 30	1300	0.0030 *	368	19300823				2	45
	17	NOV 30	1300	0.0040 *	368	19300823				2	46
	18	NOV 30	1300	0.0050 *	368	19300823				2	47
	19	NOV 30	1300	-0.0030 *	368	19300823				2	48
	21	NOV 30	0850	-0.0030 *	368	19300823				2	49
	26	NOV 30	924	0.0000 *	368	19300823				2	50
	28	NOV 30	910	0.0000 *	368	19300823				2	51
	29	NOV 30	910	0.0000 *	368	19300823				2	52
	04	DEC 30	1314	-0.0040 *	368	19300823				2	53
	05	DEC 30	1314	-0.0040 *	368	19300823				2	54
	08	DEC 30	840	0.0060 *	368	19300823				2	56
	11	DEC 30	840	0.0060 *	368	19300823				2	58
	15	DEC 30	818	-0.0020 *	368	19300823				2	59
	22	DEC 30	805	-0.0040 *	368	19300823				2	60
	23	DEC 30	805	-0.0040 *	368	19300823				2	61
	24	DEC 30	805	-0.0040 *	368	19300823				2	62
	26	DEC 30	822	-0.0060 *	368	19300823				2	63
	27	DEC 30	1330	-0.0020 *	368	19300823				2	64

* - COLLIMATION CORRECTION FACTOR (ROD UNIT PER ROD UNIT OF STADIA INTERVAL)

\$ - COLLIMATION ERROR (MM/M OR RADIANS X 1000)

LEVELING RUN DATE: 30 OCT 84 TIME: 06:33
GRANTS PASS OR TO SAN FRANCISCO CA

PAGE 14
HGZ L202
4.0 MM 1ST-ORDER/CLASS II

JHB/NGS 14 NOV 1930 30 JAN 1931

PROCESSING OPTIONS USED

" " REFRACTION CODE
"2" POSITION CODE
"A" REJECTION CODE
" " MAGNETIC CODE

PERCENT OF RUNNINGS CORRECTED

100.0 LEVEL COLLIMATION

100.0 ROD CALIBRATION

100.0 AVERAGE EXCESS
0.0 DETAILED CALIBRATION (FROM 43* RECORDS)

100.0 TEMPERATURE

0.0 PREDICTED TEMPERATURES
100.0 OBSERVED TEMPERATURES

100.0 ASTRONOMIC

0.0 MAGNETIC

100.0 REFRACTION

100.0 COMPUTED BY REDUC4
0.0 TAKEN FROM 43* RECORDS (PREDICTED TEMPERATURES)
0.0 TAKEN FROM 43* RECORDS (OBSERVED TEMPERATURES)

PREDICTED TEMPERATURES ARE COMPUTED FROM THE SOLAR RADIATION MODEL

NORMAL ORTHOMETRIC HEIGHTS HAVE BEEN COMPUTED BASED ON NORMAL GRAVITY
(USC & GS SPECIAL PUBLICATION 240)

ASSUMED THERMAL EXPANSION VALUES WERE USED FOR SOME OR ALL OF THE RODS

LEVELING RUN DATE: 30 OCT 84 TIME: 06:33
GRANTS PASS OR TO SAN FRANCISCO CA

PAGE 14
HGZ L202
4.0 MM 1ST-ORDER/CLASS II

JHB/NGS 14 NOV 1930 30 JAN 1931

PROCESSING OPTIONS USED

" " REFRACTION CODE
"2" POSITION CODE
"A" REJECTION CODE
" " MAGNETIC CODE

PERCENT OF RUNNINGS CORRECTED

100.0 LEVEL COLLIMATION
100.0 ROD CALIBRATION
 100.0 AVERAGE EXCESS
 0.0 DETAILED CALIBRATION (FROM 43* RECORDS)
100.0 TEMPERATURE
 0.0 PREDICTED TEMPERATURES
 100.0 OBSERVED TEMPERATURES
100.0 ASTRONOMIC
 0.0 MAGNETIC
100.0 REFRACTION
 100.0 COMPUTED BY REDUC4
 0.0 TAKEN FROM 43* RECORDS (PREDICTED TEMPERATURES)
 0.0 TAKEN FROM 43* RECORDS (OBSERVED TEMPERATURES)

PREDICTED TEMPERATURES ARE COMPUTED FROM THE SOLAR RADIATION MODEL

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ASSUMED THERMAL EXPANSION VALUES WERE USED FOR SOME OR ALL OF THE RODS